





## B: The *n* Days of Christmas

On the first day of Christmas, my true love gave to me, a partridge in a pear tree.

Great. I wanted an iPad.

On the second day of Christmas, my true love gave to me, two turtle doves, and a partridge in a pear tree.

OK, now I have 4 birds: two turtle doves and a partridge today, and a partridge from yesterday. My cats are going crazy.

On the third day of Christmas, my true love gave to me, three french hens, two turtle doves, and a partridge in a pear tree.

What's with the birds? I now have ten of them, and no place to put them (except inside the cats). How long can my true love keep this up?

Given a number of days of Christmas, figure out the total number of gifts I'm going to receive.

## Input

There will be several test cases in the input. Each test case will consist of a single integer n ( $1 \le n \le 1,000,000$ ), on its own line. The input will end with a line with a single 0.

## **Output**

For each test case, output a single integer, indicating the number of gifts I'm going to receive, in total. Output no spaces, and do not separate answers with blank lines.

Sample Input	Sample Output
1	1
2	4
3	10
0	